

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 346-01
 DRAWING NO. 83-87
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/10 200
 PROVEN SOURCE OF ELEVATION Spot elev. - 88'
S.F. of Location.

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) Edward W. Catterberry
 R.P.E. L.L.S. 555
Buckhannon, W.V.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

PLACE SEAL HERE



DATE July 28, 19 83
 OPERATOR'S WELL NO. 77-807
 API WELL NO. 47-017-3390

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 965' WATERSHED Lower Run
 DISTRICT Seathurst COUNTY Duchaine
 QUADRANGLE Oxford S.W. Holacreek ACRES 0.58
 SURFACE OWNER V.M. Osburn, Estate ACREAGE 1.073
 OIL & GAS ROYALTY OWNER E.W. Osburn LEASE ACREAGE 1.807

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 5100'
 WELL OPERATOR STY Enterprises, Inc. DESIGNATED AGENT Richard Reddick
 ADDRESS P.O. Box 18 421 ADDRESS P.O. Box 18 Buckhannon, W.V. 26201

COUNTY NAME _____ PERMIT DEC 26 1984

6-6 Straight Fork - Bluestone Creek (133)

RECEIVED
MAY 10 1985



Date May 9, 1985
Operator's Well No. JKS-807
Farm E.W. Osburn
API No. 47-017 - 3390

DEPT. OF MINES
OIL & GAS DIVISION
State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 965 Watershed Lower Run
District: Southwest County Doddridge Quadrangle Oxford 7.5

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 E.W. Osburn Est./C/O Cletha Osburn
ADDRESS Rt. # 1, Box 189, West Union, WV 26456
MINERAL RIGHTS OWNER Same as surface
ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. # 2, Box 114, Salsburg, WV 26426

PERMIT ISSUED 12/5/84
DRILLING COMMENCED 4/8/85
DRILLING COMPLETED 4/14/85

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

Casing & Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1540	1540	335 sks.
7			
5 1/2			
4 1/2	5189.15	5189.15	450 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 4943-4969 feet

Depth of completed well 5988 feet Rotary x / Cable Tools

Water strata depth: Fresh 100-190 feet; Salt 0 feet

Coal seam depths: 165-68 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 4943-81 feet

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

Combined Final open flow 730 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1800 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4273-88 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 MAY 20 1985 hours

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

(Continue on reverse side)

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

Alexander: Perforations: 4943-45 (4 holes) 4951-53 (4 holes) 4967-69 (4 holes)
 Fracturing: 500 sks. 20/40 sand: Foam frac.
 Riley: Perforations: 4273-74 (4 holes) 4967-69 (4 holes)
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: Foam frac.

BOTTOM HOLE PRESSURE Pf=PweXGIS
 $t=60 + (0.0075 \times 5189) + 459.7 = 559$ $X = \frac{1}{53.35} \times 559 = \frac{1}{29823} = 0.000034$ $PF=1800 \times 2.72$
 $(0.000034)(0.702)(4621)(0.9) = 1800 \times 2.72^{0.1} = 1800 \times 1.1$

Pf=1980 psi

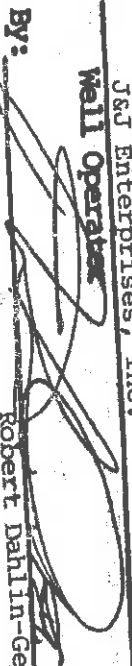
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill & Red rock			0	15	
Red rock, sand & shale			15	35	1" stream @ 100'
Sand, red rock & shale			35	165	1/4" stream @ 190'
Coal			165	168	
Sand, red rock & shale			168	350	Gas ck @ 1926 No show
Sand, shale & red rock			350	595	Gas ck @ 3195 No show
Sand, shale & red rock			595	900	Gas ck @ 4316 No show
Sand & shale			900	1150	
Shale & sand			1150	1400	Gas ck @ 4720 18/10-1/4" w/water 7,927 cu.ft.
Shale & shale			1400	1700	
Sand & shale			1700	1735	Gas ck @ 5152 20/10-1/4" w/water 8,419 cu.ft.
Little lime			1735	1755	
Shale			1755	1810	
Big Lime			1810	1880	
Big Injun			1880	2600	
Shale & sand			2600	3115	
Shale & sand			3115	4273	
Sand & shale			4273	4288	
Riley			4288	4943	
Sand & shale			4943	4969	
Alexander			4969	5520	
Sand & shale			5520	5988	
Shale			5988		

Ballio's @ T.D.

T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
 Well Operator
 By: 
 Robert Dahlin-Geologist
 Date: 5/9/85

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
 sand, encountered in the drilling of a well."



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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Undergrnd storage Deep Shallow
 Elevation: 965' Watershed: Lower Run
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5
 6) WELL OPERATOR J & J ENTERPRISES, INC.
 Address P.O. Box 48
 Buckhannon, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood
 Address Route 2, Box 114
 Salem, WV 26426
 10) PROPOSED WELL WORK: Drill Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) _____

RECEIVED

AUG 24 1984
OIL & GAS DIVISION
DEPT. OF MINES

- 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5200 feet
 13) Approximate trata depths: Fresh, 400 feet; salt, None feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes No

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.	For drilling	Left in well	Kind		
Conductor	11 3/4	H-40	42	30	0	0 SKS		
Fresh water	8 5/8	ERW	23	1200	1200	to surface		
Coal	8 5/8	ERW	23	1200	1200	to surface		
Intermediate								
Production Tubing	4 1/2	J-55	10.5	5200	5200	250 sacks		
Liners								

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3390

December 5, 19 84

Date

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 5, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: \$2000	Agent: J.P.	Plat: T3	Casing: T3	Fec: 1787
BLANKET				

Margaret J. Hase
Administrator, Office of Oil and Gas

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

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

File

