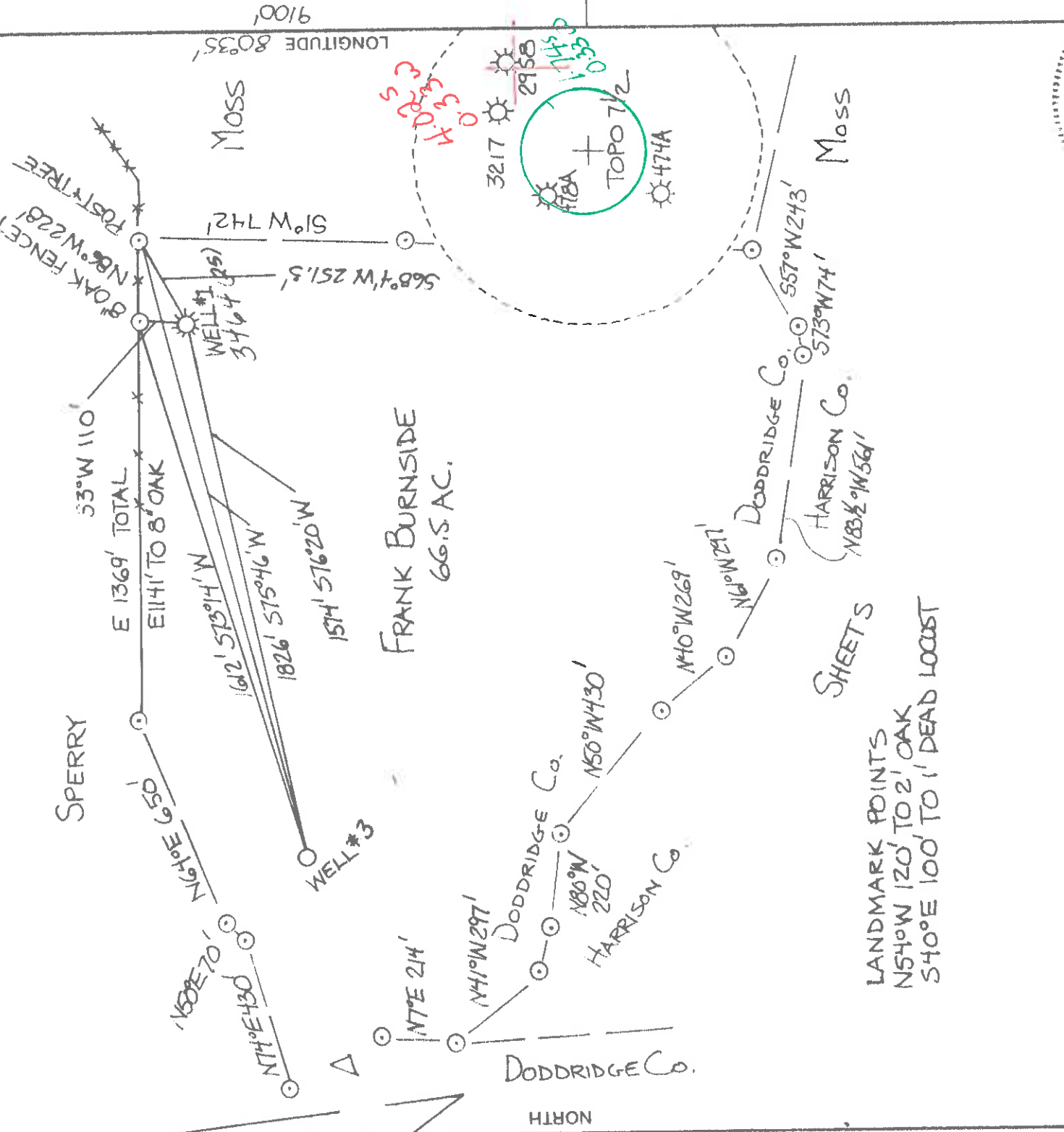


39 15' 39°12' 30" LATITUDE

1800'

LONGITUDE 80°35' 9100'

CODE CARD PLOT



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

FILE NO. 10-21-85R
DRAWING NO. 10-21-85R
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION § OF ROADS AT INT. 3000 EAST (94)

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) Walter L. Perpet
R.P.E. THO L.L.S.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE OCT 21, 19 85
OPERATOR'S WELL NO. 3
API WELL NO. 3

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS:") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1261 WATER SHED DRY FORK
DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
QUADRANGLE BIG ISAK T2 252 COUNTY DODDRIDGE
SURFACE OWNER L.L. MOSS ACREAGE 66.5
OIL & GAS ROYALTY OWNER FRANK BURNSIDE LEASE ACREAGE 66.5

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 ELK ESTIMATED DEPTH 5840'
WELL OPERATOR HYDROCARBON EXPLORATION, INC. DESIGNATED AGENT AL SORCAN
ADDRESS PO DRAWER 976 ADDRESS PO DRAWER 976
BUCKHANNON W.VA. 26206 ADDRESS Jarvisville ADDRESS (151) BUCKHANNON W.VA.



FORM IV-6 (8-78)

H T HALL



MR-35 MAR 17 1986

Date March 7, 1986
Operator's Well No. Burnside #3
Farm L.L. MOSS
API No. 47 - 017 - 3484

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1261 Watershed Dry Fork
District: Greenbrier County Doddridge Quadrangle Big Issac 7k

COMPANY Hydrocarbon Exploration
ADDRESS P.O. Box 976 Bkhn, WV 26201
DESIGNATED AGENT Alvin Sorcan
ADDRESS P.O. Box 976 Bkhn, WV 26201
SURFACE OWNER David Kent Moss
ADDRESS Rt 7, Box 201 Bkhn, WV 26201
MINERAL RIGHTS OWNER Carolyn Farnsworth
61 Riverbend Apt.
ADDRESS Stoneybrooke Rd., Clksbrg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt 2, Box 114 Salem, WV
PERMIT ISSUED 12/31/85
DRILLING COMMENCED 1/14/86
DRILLING COMPLETED 1/26/86

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"			
1 1/2	320'	320'	160 sks
1 3/4	320'		
1 5/8	1803'	1803'	221 sks
7			
5 1/2			
4 1/2	5564'	5564'	640 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5325 feet
Depth of completed well 5812 feet Rotary X / Cable Tools
Water strata depth: Fresh 260 feet; Salt 1326 feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Elk Benson Bradford Pay zone depth 3804-5477 feet
Gas: Initial open flow 163 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 103 Mcf/d Final open flow 40 Bbl/d

Time of open flow between initial and final tests 4 hrs. hours
Static rock pressure 1140 psig (surface measurement) after 4 days shut in

(If applicable due to multiple completion--)
Second producing formation Ball.-Speechly Pay zone depth 3539-3711 feet
Gas: Initial open flow 163 Mcf/d Oil: Initial open flow Smell Bbl/d
Final open flow 103 Mcf/d Oil: Final open flow 40 Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 1140 psig (surface measurement) after 4 days shut in

MAR 24 1986 (Continue on reverse side)

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

Formation	Perfs	Holes	Sand	BRK ^h	Rate	I.S.I.P.
Elk Benson	(5114-5477)	14	39,000	2100	21	2710
Bradford	(3804-3968)	14	60,000	1700	36	1170
Ball Sp.	(3539-3711)	12	60,000	1690	36	1120

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SAND			0	40	
SAND & SHALE			40	200	
SAND			200	350	
SAND & SHALE			350	635	
RED ROCK			635	756	Hole damp @ 1326
SAND			756	799	
SAND & SHALE			799	976	
SAND			976	1138	
SAND & SHALE & RED ROCK			1138	1260	
SAND & SHALE			1260	1415	
SAND			1415	1821	
SAND & SHALE			1821	2109	
RED ROCK			2109	2213	
BIG LIME			2213	2269	
SAND & SHALE			2269	2887	
4th SAND			2887	2900	
SAND & SHALE			2900	2933	
5th SAND			2933	3510	Show Gas @2975
SPEECHLEY			3510	3562	Show Gas @3030
SAND & SHALE			3562	3700	Smell Oil from 3540-55
BALITOWN			3700	3733	
SAND & SHALE			3733	3782	
RED ROCK			3782	3935	
SAND & SHALE			3935	5015	
BENSON			5015	5026	
SAND & SHALE			5026	5250	Show Gas @ 5120
ALEXANDER			5250	5265	
SAND & SHALE			5265	5812	
T.D.			5812	5812	Gas @ TD 163 MCF

Top Dev 2540

Elk@TD.

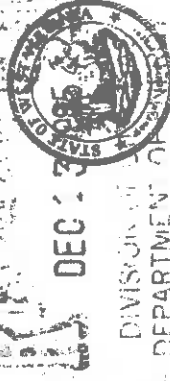
(Attach separate sheets as necessary)

Well Operator

By: Alvin Jones

Date: _____

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 logs, encountered in the drilling of a well."



DEC 2 1985

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

4) WELL TYPE: A Oil Gas B (if "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 1261 Watershed: DAY FORK
 District: GREENBRIER 392 County: DODDGE Quadrangle: Big ISSAS 7 1/2
 6) WELL OPERATOR: Hydrocarbon Exploration CODE: 23625 7) DESIGNATED AGENT: ALVIN SERJAN
 Address: P.O. Box 976 P.E. Box 976
 Burkhannon W.V. 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name: MIKE UNDERWOOD N/A
 Address: Rt. 2 Box 114
 SALEM W.V. 26426

9) DRILLING CONTRACTOR:
 Name: N/A
 Address: _____
 10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify): _____
 11) GEOLOGICAL TARGET FORMATION: Elk 437
 12) Estimated depth of completed well, 5840 feet
 13) Approximate true depths: Fresh, 2260 feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ feet; 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		
Conductor	11 3/4				220-290	50 sk	P.S. by rule 15.05
Fresh water							
Coal							
Intermediate	8 5/8		23		1700	400 SAKS	
Production	4 1/2		105		5700	600 SK	needed required by rule 15.01
Tubing							
Liners							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3484 Date December 31 19 85

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 31, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing Fee: 956	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
			958			

[Signature]
 Director, Division of Oil and Gas

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

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

