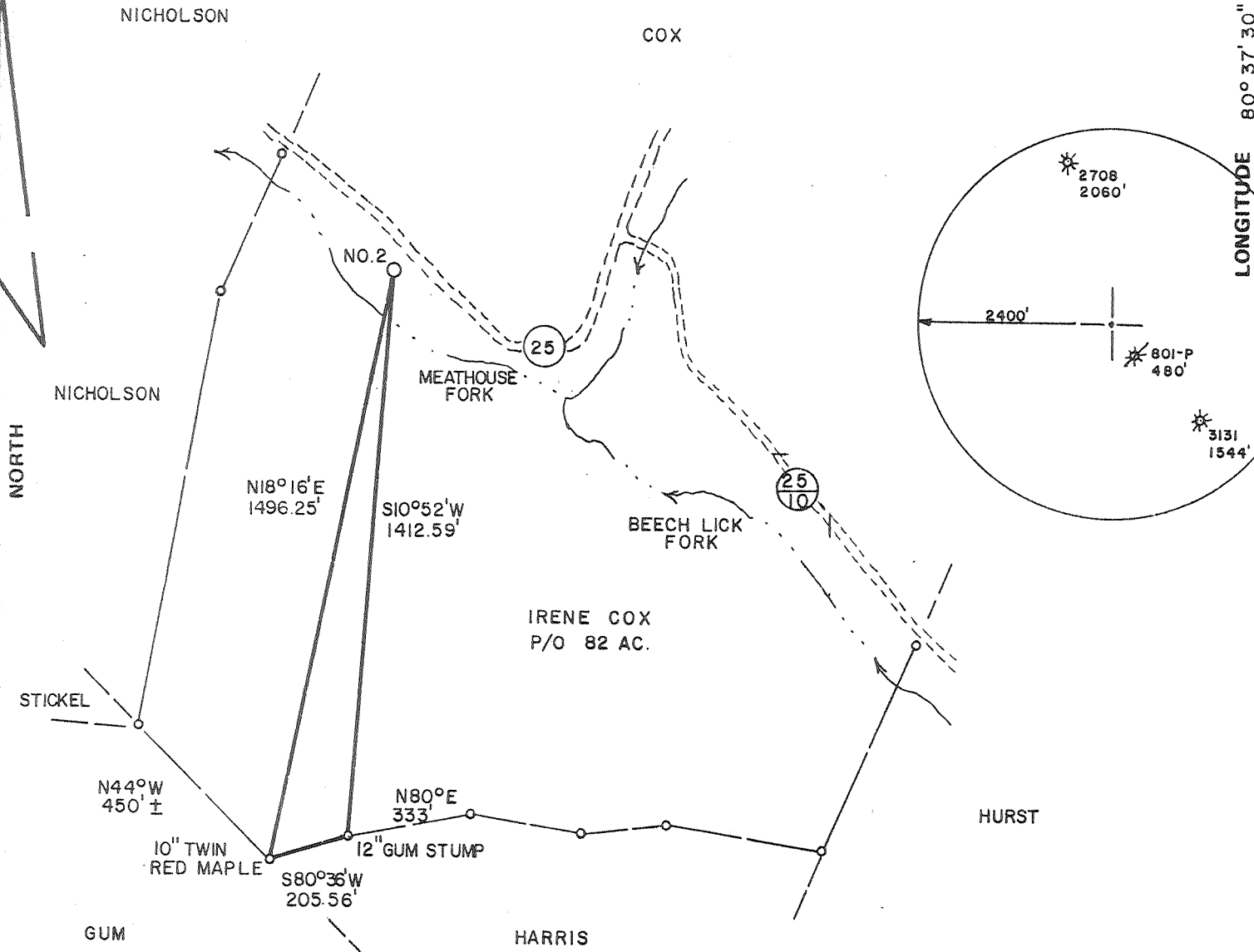


Janice 10/30/89

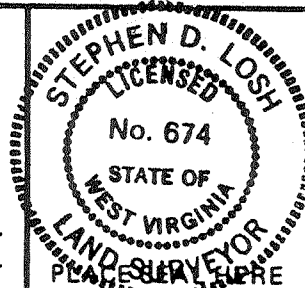


PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM ELEV. - 885'

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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE AUGUST 31, 19 82
 OPERATOR'S WELL NO. COX NO. 2
 API WELL NO. 47 - 017 - 3136-P
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 880' WATER SHED MEATHOUSE FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5 min.

Plugging Cancelled

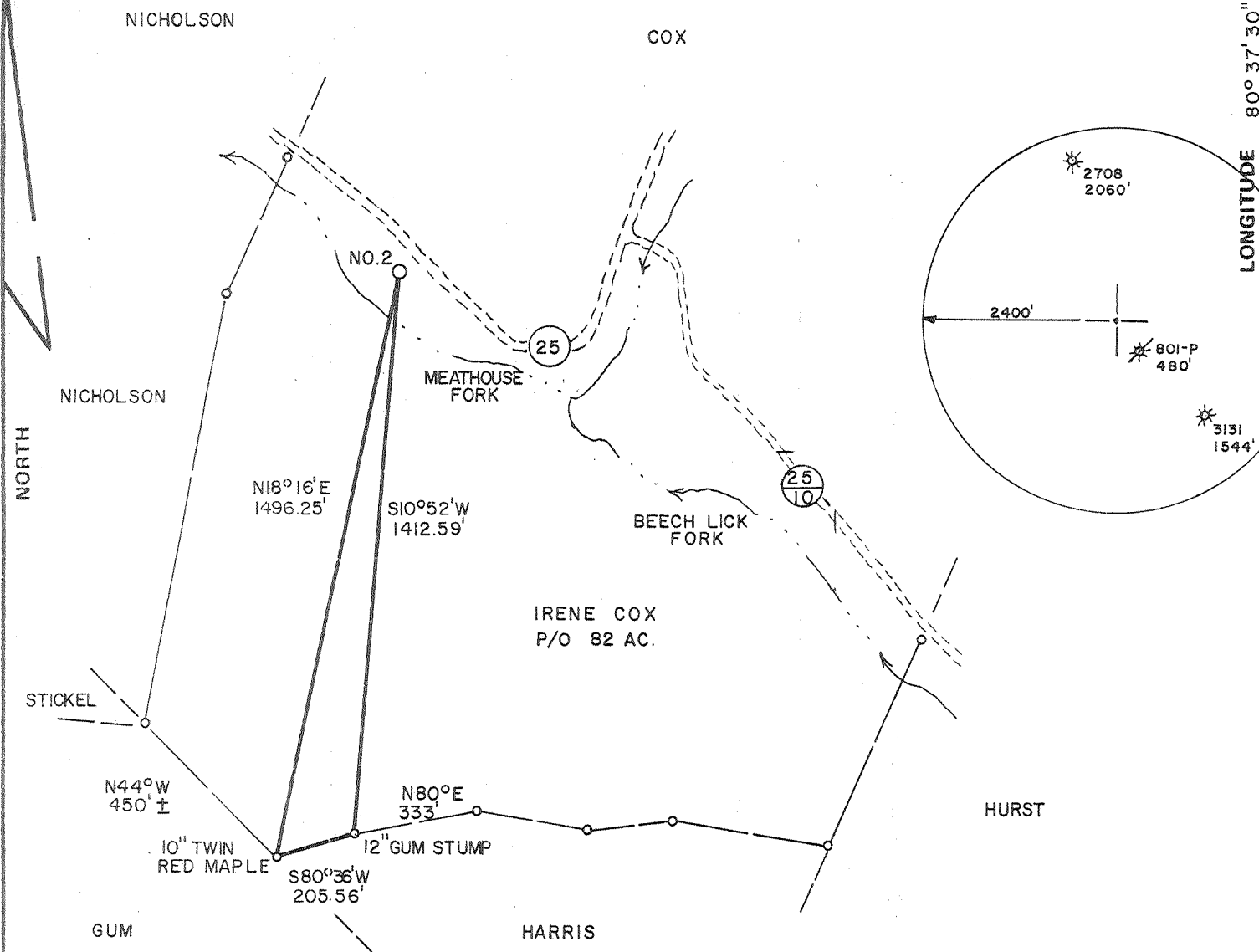
SURFACE OWNER IRENE COX ACREAGE 40.32
 OIL & GAS ROYALTY OWNER IRENE COX LEASE ACREAGE 82
 LEASE NO. 49-0174

PROPOSED WORK: DRILL X 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 5300'

WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT *JACK WHITMIRE*
 ADDRESS P.O. BOX 2201 CLARKSBURG, WV 26301 ADDRESS *RT. 1 BOX 100 MOST CREEK, WV 26385*

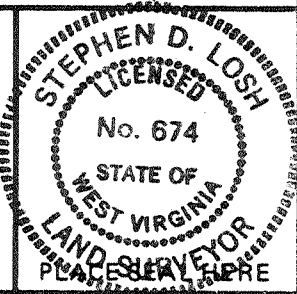
Janie 10/30/89



PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

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 (SIGNED) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE AUGUST 31, 1982
 OPERATOR'S WELL NO. COX NO. 2
 API WELL NO. 47-017-3136-P
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 880' WATER SHED MEATHOUSE FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5 min.
 SURFACE OWNER IRENE COX ACREAGE 40.32
 OIL & GAS ROYALTY OWNER IRENE COX LEASE ACREAGE 82
 LEASE NO. 49-0174
 PROPOSED WORK: DRILL X 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 5300'
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT JACK WHITMIRE
 ADDRESS P.O. BOX 2201 ADDRESS RT. 1 BOX 100
 CLARKSBURG, WV 26301 MOST CREEK, WV 26385

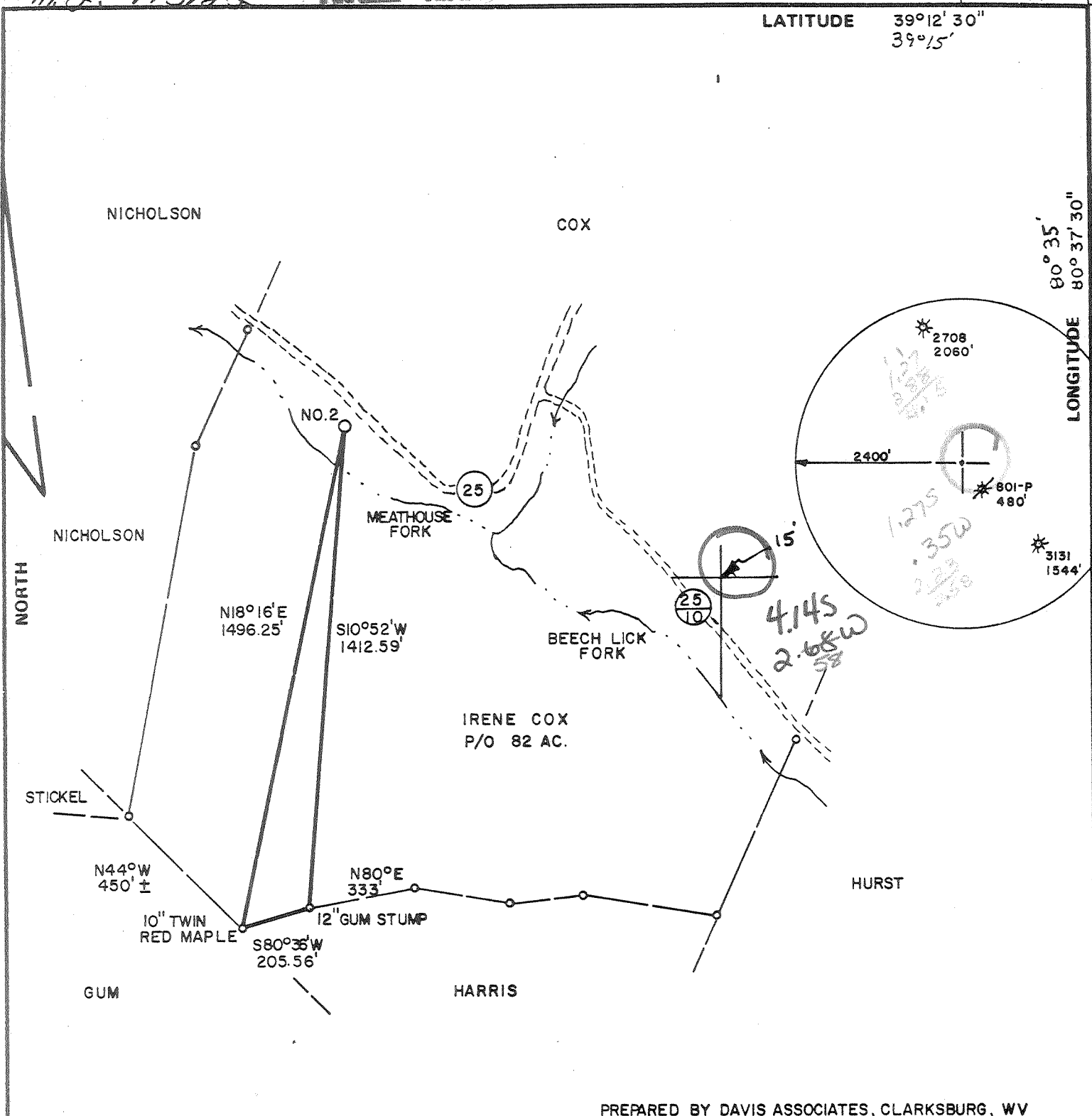
M.A. 9/13/82

Plot Card USD

1900

LATITUDE 39°12' 30"
39°15'

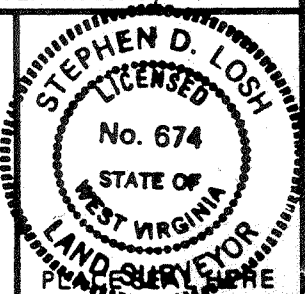
LONGITUDE 80° 35'
80° 37' 30"



PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

FILE NO. _____
 DRAWING NO. _____
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



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 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 880' WATER SHED MEATHOUSE FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.3 min. Davis 15' NC
 SURFACE OWNER IRENE COX ACREAGE 40.32
 OIL & GAS ROYALTY OWNER IRENE COX LEASE ACREAGE 82
 LEASE NO. 49-0174

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 5300'
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT
 ADDRESS P.O. BOX 2201 ADDRESS P.O. BOX 2201

64 SPD-Belltown
 SEP 13 1982
 (146)

RECEIVED

FEB - 1983

IV-35
(Rev 8-81)

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date February 7, 1983

Operator's
Well No. Cox No. 2

Farm
API No. 47 - 017 - 3130

FEB 21 1983

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

017-3136

WELL TYPE: Oil___/ GasXX/ Liquid Injection___/ Waste Disposal___/
(If "Gas," Production XX/ Underground Storage___/ Deep___/ ShallowXX_/)

LOCATION: Elevation: 880 Watershed Meathouse Fork
District: New Milton County Doddridge Quadrangle New Milton 7 1/2'

COMPANY Swift Energy Company

ADDRESS P.O. Box 2201, Clarksburg, WV 26301

DESIGNATED AGENT Tim Bennett

ADDRESS 737 Karl St., Weston, WV 26452

SURFACE OWNER Irene Cox

ADDRESS Rt. 3, Salem, WV 26426

MINERAL RIGHTS OWNER Irene Cox

ADDRESS Rt. 3, Salem, WV 26426

OIL AND GAS INSPECTOR FOR THIS WORK

Stephen Casey ADDRESS Rt. 2, Box 232D, Jane Lew, WV, 26378

PERMIT ISSUED 09-03-82

DRILLING COMMENCED 09-14-82

DRILLING COMPLETED 09-20-82

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"			
9 5/8			
8 5/8	1305	1305	335
7			
5 1/2			
4 1/2		5243	520
3			
2 3/8"		5096	
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5300 feet

Depth of completed well 5516 feet Rotary XX / Cable Tools

Water strata depth: Fresh 15,75,165 feet; Salt feet

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

OPEN FLOW DATA

Producing formation Alexander *see back* Pay zone depth 5092 feet

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

Final open flow 179 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1505 psig (surface measurement) after 12 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson, Balltown 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

* Gas comingled from formations

(Continue on reverse side)

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

- 82 Alexander - 5092-5097, 4000# 80-100 SD, 12,000# 20-40 SD, 500 GA, 300 BGW.
Benson - 4786-4790, 4000# 80-100 SD, 12,000# 20-40 SD, 500 GA, 300 BGW.
Stray Balltown - 3846-3851, 4000# 80-100 SD, 12,000# 20-40 SD, 500 GA, 300 BGW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	5	1" stream at 15'
Sandstone & Shale			5	1888	3½" stream at 75'
Limestone			1888	1965	1½" stream at 165'
Big Injun Sandstone			1965	2029	
Shale			2029	2304	Gas check at 2000' no show
Gantz Sandstone			2304	2330	Gas check at 2349' no show
Sandstone & Shale			2330	3158	Gas check at 2750' no show
Elizabeth Sandstone			3158	3186	Gas check at 3550' 10/10-½" w/wate
Sandstone & Shale			3186	4785	Gas check at 3889' 10/10-½" w/wate
Sandstone (Benson)			4785	4817	Gas check at 4810' no show
Sandstone & Shale <i>Elk @ T.D.</i>			4817	5516	Gas check at 5147' 6/10 = 1" w/wat
				T.D.	Gas check at 4382' no show
					Gas check at T.D. 2/10-½" w/water

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY

Well Operator

By: *Virgil N. Swift* / Virgil N. Swift

Date: February 7, 1983

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 coal, encountered in the drilling of a well."



Date: September 2 19 82

Operator's Well No. Cox No. 2

API Well No. 47 017 3136

State County Permit

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

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)

LOCATION: Elevation: 880' Watershed: Beech Lick Fork of Meathouse Fork
District: Greenbrier County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR Swift Energy Company
Address P. O. Box 1933
Clarksburg, WV 26301

DESIGNATED AGENT Tim Bennett
Address P. O. Box 1933
Clarksburg, WV 26301

OIL & GAS ROYALTY OWNER Irene Cox
Address Route 3
Salem, WV 26426

COAL OPERATOR N/A
Address

Acreage 82

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Irene Cox
Address Route 3
Salem, WV 26426
Acreage 24.25

Name NONE
Address
Name
Address

FIELD SALE (IF MADE) TO:
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Steven Casey
Address Rt. 2, Box 232D
Jame Lew, WV 26378

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease x other contract / dated August 25, 19 81, to the undersigned well operator from Carl N. and Irene Cox to Clarence Mutschelknaus and assigned to applicant.
(If said deed, lease, or other contract has been recorded:)

Recorded on September 4, 19 81, in the office of the Clerk of the County Commission of Doddridge County, West Va., in Lease Book 121 at page 758. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED

SEP 03 1982

OIL & GAS DIVISION
DEPT. OF MINES

BLANKET BOND

Swift Energy Company
Well Operator
By Tim Bennett
Designated Agent

PROPOSED WORK ORDER

(12-81)

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNKNOWN

Address _____

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5300 feet Rotary / Cable tools _____ /

Approximate water strata depths: Fresh, 170,2000. feet; salt, - feet.

Approximate coal seam depths: None 2550 Is coal being mined in the area? Yes _____ / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	<u>11 3/4</u>				<input checked="" type="checkbox"/>	<u>30</u>			Kinds
Fresh Water						<u>200'</u>	<u>200'</u>	<u>CTS</u>	
Coal									Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>		<input checked="" type="checkbox"/>			<u>2600</u>	<u>To surface</u>	
Production	<u>4 1/2</u>	<u>J-55</u>		<input checked="" type="checkbox"/>			<u>5300</u>	<u>550 Sks.</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-3-83
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____

Its _____