

7100'

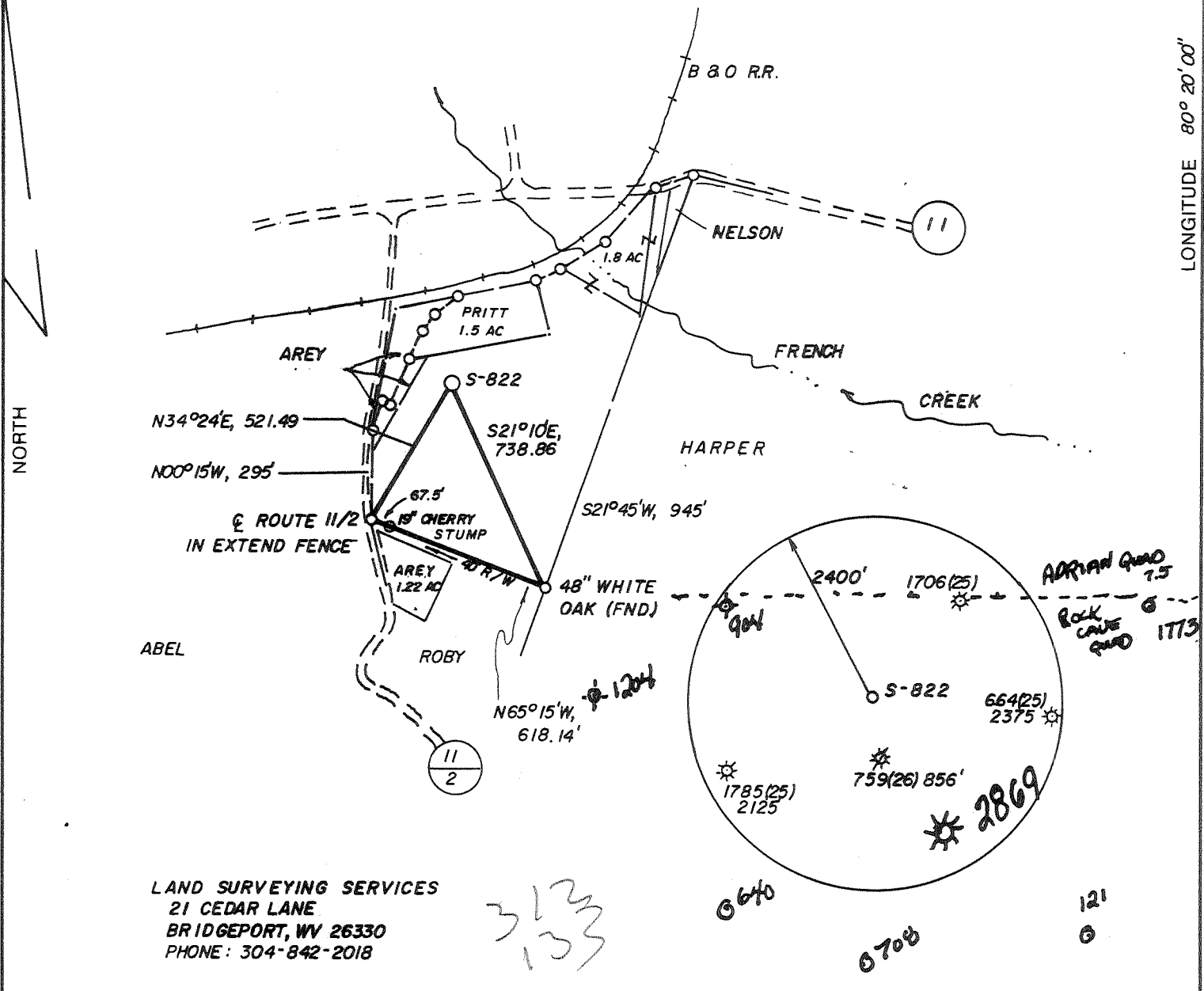
LATITUDE 38° 52' 30"

WELL REFERENCES:  
S17° W, 96' TO POLE C9-993  
N38° E, 69' TO LOCUST BUSH

*Janie 5/31/90*  
*8/29/95*

7.5'

*0.255*  
*0.34W*



LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

*3123*  
*133*

*0640*

*0700*

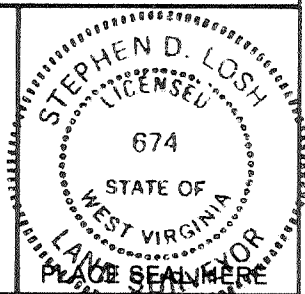
*121*  
*6*

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION B.M. 574' NE. OF LOC.  
AT ELEV. 1496'

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) *[Signature]*

R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
NITRO, WEST VIRGINIA 25143



DATE APRIL 27, 19 90  
OPERATOR'S WELL NO. S-822  
API WELL NO. AREY 1

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1496' WATERSHED FRENCH CREEK  
DISTRICT BANKS COUNTY UPSHUR  
QUADRANGLE ROCK CAVE  
SURFACE OWNER ED AREY ACREAGE 11.87  
OIL & GAS ROYALTY OWNER ED AREY LEASE ACREAGE 11.87

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
Set Temporary Plug frac Elizabeth 5 fifth sand commingle with

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION BENSON ESTIMATED DEPTH 4200'  
WELL OPER ADDRESS Cabot Oil & Gas Corporation  
400 Fairway Drive, Suite 400  
Corapolis, Pennsylvania 15108  
DESIGNATED AGENT ADDRESS \_\_\_\_\_  
David G. McCluskey  
P.O. Box 1473  
Charleston, wva. 2 5325-1473  
PH: 304-347-1600

FORM WW-6  
HALLS INC. 099005

COUNTY NAME PERMIT

7100'

LATITUDE 38° 52' 30"

*Donnie 5/31/90*

WELL REFERENCES:

S17° W, 96' TO POLE C9-993

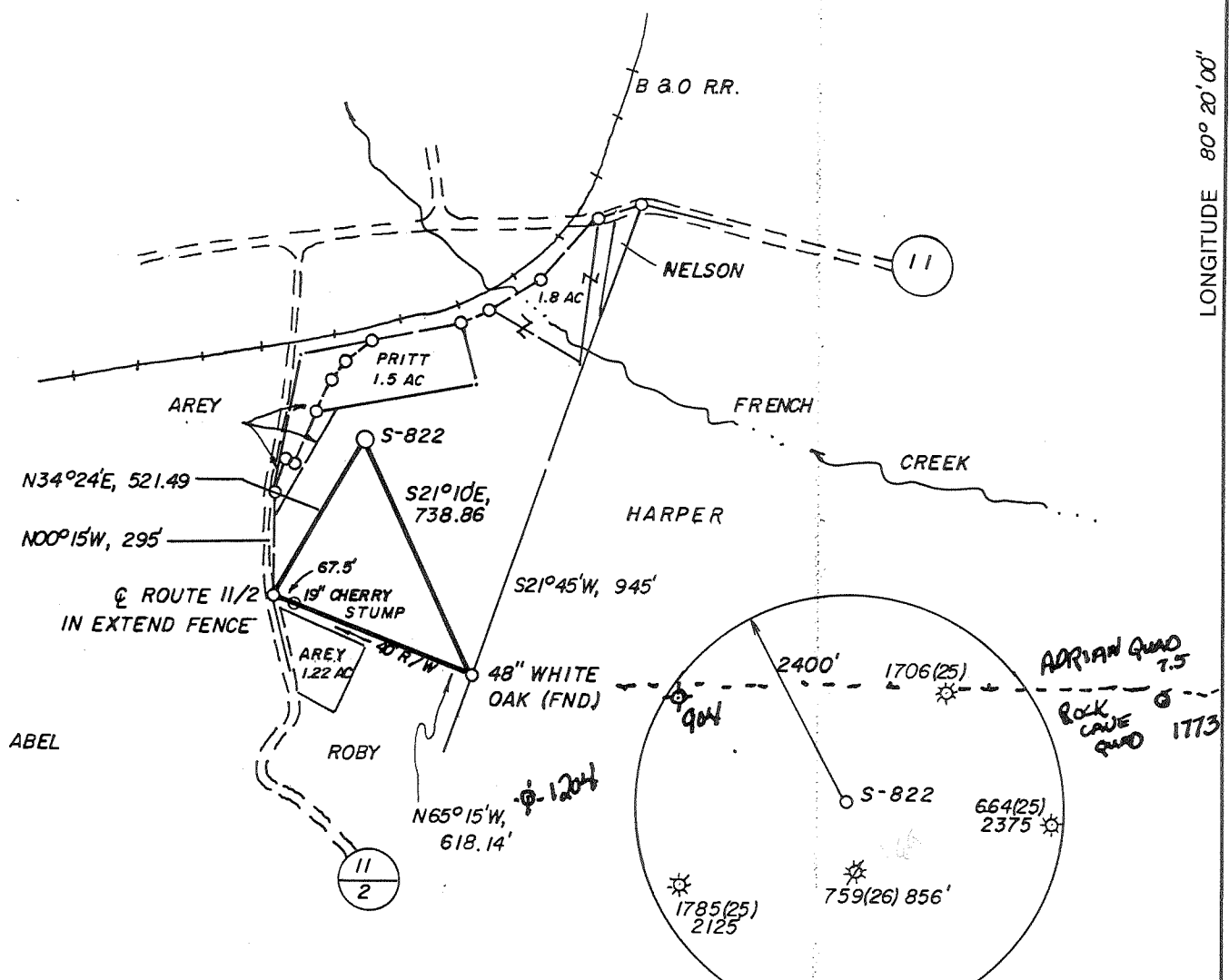
N38° E, 69' TO LOCUST BUSH

7.5'

*0.245  
1.33W*

LONGITUDE 80° 20' 00"

NORTH



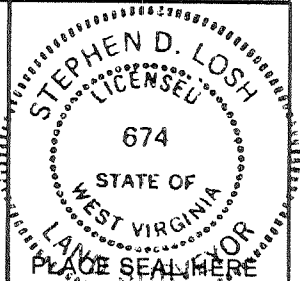
LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

*3.125  
1.33W*

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION B.M. 574' NE. OF LOC. AT ELEV. 1496'

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) *[Signature]*  
 R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 27, 19 90  
 OPERATOR'S WELL NO. S-822  
 API WELL NO. 47-097-2868  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1496' WATERSHED FRENCH CREEK  
 DISTRICT BANKS COUNTY UPSHUR  
 QUADRANGLE ROCK CAVE Crawford C

SURFACE OWNER ED AREY ACREAGE 11.87  
 OIL & GAS ROYALTY OWNER ED AREY LEASE ACREAGE 11.87  
 LEASE NO. \_\_\_\_\_

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 BENSON ESTIMATED DEPTH 4200'  
 WELL OPERATOR SCOTT OIL CO. DESIGNATED AGENT DARREL WRIGHT  
 ADDRESS P. O. BOX 112 ADDRESS P. O. BOX 112  
SALEM, WV 26426 SALEM, WV 26426

JUN 4 1990

*6-6 Abbott-French Creek (189)*

FORM WW-6 HALLS, INC. 068065

COUNTY NAME PERMIT

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

Permitting  
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: AREY, EDWARD & GOLDIE Operator Well No.: ED AREY #1

LOCATION: Elevation: 1,496.00 Quadrangle: ROCK CAVE

District: BANKS County: UPSHUR  
 Latitude: 1330 Feet South of 38 Deg. 52Min. 30 Sec.  
 Longitude 7100 Feet West of 80 Deg. 20 Min. 0 Sec.

Company: CABOT OIL & GAS CORPORATI  
 400 FAIRWAY DRIVE, SUITE 400  
 CORAOPOLIS, PA 15108-4308

Agent: JOHN W. ABSHIRE

Inspector: TIM BENNETT  
 Permit Issued: 08/28/95  
 Well work Commenced: 9/05/95  
 Well work Completed: 9/13/95  
 Verbal Plugging  
 Permission granted on:  
 Rotary Cable Rig  
 Total Depth (feet) 4308'  
 Fresh water depths (ft) N/A  
 Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
11 3/4"	30'	30'	
8 5/8"	743'	743'	180 s CTS
4 1/2"	4183'	4183'	515 s

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): 380', 590'

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4039'  
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A  
 Final open flow comm 407 MCF/d Final open flow N/A  
 Time of open flow between initial and final tests --  
 Static rock Pressure 1000 psig (surface pressure) after 26  
 Second producing formation Elizabeth Pay zone depth (ft) 2396'  
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A  
 Final open flow comm 407 MCF/d Final open flow N/A  
 Time of open flow between initial and final tests 8  
 Static rock Pressure 340 psig (surface pressure) after 48

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFOR INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATI INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION

By: D. L. McCluskey  
 Date: 8/21/96

AUG 23 1996  
 1996





RECEIVED  
MAY 23 1990  
DEPT. OF ENERGY STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

47-097-2868  
Issued 5/31/90  
Page 1 of 1  
Expires 5/31/92

- 1) Well Operator: Scott Oil Company 44315 (1) 581
- 2) Operator's Well Number: S-822 Ed Arey 3) Elevation: 1496
- 4) Well type: (a) Oil  or Gas   
(b) If Gas: Production  / Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 4200 feet
- 7) Approximate fresh water strata depths: 48', 469', 72
- 8) Approximate salt water depths: None Reported
- 9) Approximate coal seam depths: Possible 1086'-1090'
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: Drill and stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"			30'		
Fresh Water						
Coal						
Intermediate	8 5/8				750	380SP18-11.3 380SP18-11.2.2 to surface
Production	4 1/2				2200	300 sks
Tubing						380SP18-11.1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

2375  
+3

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket sure  Agent  
(Type)

RECEIVED

WV Division of Environmental Protection

FORM WW-2B AUG 03 1995

097-2868-W

Issued 08/28/95 Page of

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS Express 08/28/97 WELL WORK PERMIT APPLICATION

Permitting Office of Oil & Gas

- 1) Well Operator: CABOT OIL & GAS CORPORATION 8145 (1) 582
2) Operator's Well Number: ED AREY #1 3) Elevation: 1496'
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage / Deep / 425 Shallow X /
5) Proposed Target Formation(s): ELIZABETH & 5th SAND
6) Proposed Total Depth: 4308 feet
7) Approximate fresh water strata depths: N/A
8) Approximate salt water depths: N/A
9) Approximate coal seam depths: 380', 590'
10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: Complete Elizabeth & 5th Sand Formations, Commingle with Benson.

12) EXISTING

CASING AND TUBING PROGRAM

Existing well.

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, Liners.

PACKERS : Kind N/A
Sizes
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Plat WW-9 WW-2B Bond (Type) Agent

13275/36