



= NOTE =

NO OTHER WELLS WITHIN 1200 OF THIS LOCATION

A = S-53-W 330'  
B = N-6-E 318'

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

FILE NO. \_\_\_\_\_  
DRAWING NO. 83-103-10  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION KNOB 1700 N-E  
OF LOCATION: ELEV 1196

CO: 087 PMT: 3850  
TH: Loc Disitized from DGIS 7.5' Mylar  
KN QUAD: 444 DATE: 4-JUN-90  
INF LAT: 38 42.5 Miles South: 0.09  
LA: LONG: 81 20.0 Miles West: 1.89  
MENT OF MINES.  
(SIGNED) William A. Roberts  
R.P.E. \_\_\_\_\_ L.L.S. 714

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**



DATE OCTOBER 12, 1983  
OPERATOR'S WELL NO. SNYDER #2  
API WELL NO. 47-087-3850

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ STATE COUNTY PERMIT  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X CORRECTED #

LOCATION: ELEVATION 933.0 WATERSHED ROUND KNOB RUN  
DISTRICT WALTON COUNTY ROANE  
QUADRANGLE LOONEYVILLE 7 1/2' Walton 15' NC

SURFACE OWNER ALFRED GANDEE ACREAGE 91 3/4  
OIL & GAS ROYALTY OWNER GATHA MAE SNYDER LEASE ACREAGE 91 3/4

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 DEVONIAN shale ESTIMATED DEPTH 5900  
WELL OPERATOR CENTRAL PACIFIC GROUP DESIGNATED AGENT PETROLEUM SERVICES, INC.  
ADDRESS 2115 KERN STREET ADDRESS P.O. Box 4081  
FRESNO, CALIF. 93721 PARKERSBURG, W.V. 26101

NOV 07 1983

- DEEP WELL - 6-6 Gandeeville (371)

FORM IV-6 (8-78)

COUNTY NAME  
PERMIT

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DEC 20 1983



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia

Department of Mines Oil and Gas Division

Date 12-19-83 Operator's Well No. #2 Farm SNYDER API No. 047 - 087 - 3850

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 / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 933 Watershed ROUND KNOB RUN District: WALTON County ROANE Quadrangle LOONEYVILLE 7.5

COMPANY THE CENTRAL PACIFIC GROUP, INC ADDRESS 2222 WEST SHAW, SUITE 20, FRESNO, CA, 93711 DESIGNATED AGENT JOHN CUSHING ADDRESS P.O. BOX 4081, PARKERSBURG, A. VA, 26104 SURFACE OWNER ALFRED GANDEE ET AL ADDRESS SPEED, W. VA. MINERAL RIGHTS OWNER GATHA MAE SNYDER ET AL ADDRESS SPEED, W. VA. OIL AND GAS INSPECTOR FOR THIS WORK HOMER DAUGHERTY ADDRESS BOX 3A, LOONEYVILLE, W. VA. PERMIT ISSUED OCT 28, 1983 DRILLING COMMENCED 11-17-83 DRILLING COMPLETED 11-22-83

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 11-3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

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

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth 5645 feet Depth of completed well 5654 feet Rotary X / Cable Tools Water strata depth: Fresh 300 feet; Salt N/A feet Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA Producing formation DEVONIAN SHALE Pay zone depth 3642-5600 feet Gas: Initial open flow show Mcf/d Oil: Initial open flow N/A Bbl/d Final open flow 1.4 Mcf/d Final open flow N/A Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1200 psig (surface measurement) after 4 hours shut in (If applicable due to multiple completion--)

FOF 1,400 MCF

(Continue on reverse side)

Joe copied in chists 7/24/85

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

1st stage- 20 holes- 5414-5600 foam frac 60,000# sand-1,000 mcf N2 - R - GENESSEE  
 2nd stage- 20 holes- 5176-5372 foam frac 60,000# sand-1,000 mcf N2 - R - RHIN,  
 3rd stage- 20 holes- 4364-4955 nitrogen frac 1,000 mcf N2 - H - A,  
 4th stage- 20 holes- 3642-4214 nitrogen frac 1,000 mcf N2 - U.DEV, - H

Up Dev and diff 3642 - 3758  
 Huron 3758 - 4214  
 Huron 4364 - 4604  
 Java 4604 - 4786  
 Angola 4786 - 4955

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	bn	s	0	10	
ss	bn	s	10	81	
shale	bn	s	81	300	
ss	bn	s	300	1884	
salt sand	w	h	1884	1958	
maxton	bn	h	1976	2016	
big lime	w	h	2036	2154	
big injun	w	h	2154	2580	
sunbury	bn	s	2580	2590	
huron	bn	s	3530	3840	
java	bn	s	4604	4910	
morton bundle	bn	s	4932	4958	
angola	bn	s	4988		
sonyea	bn	s	5480		
genesee	bn	s	5540		
mahantango	bn	s	5595		
T.D.				5654	ONOND @ TD, Loc Tops Poconna - 2154 U.DEV. - 2592 H - 3758 J - 4604 A - 4786 R - 5068 SONYEA - 5447 GENESSEE - 5568 MARC. - 5616 ONOND. - 5642

(Attach separate sheets as necessary)

THE CENTRAL PACIFIC GROUP, INC

Well Operator

By:

*John C. ...* AGENT

Date:

12-19-83

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."



1) Date: OCTOBER 17, 19 83  
 2) Operator's Well No. SNYDER # 2  
 3) API Well No. 47 - 087 - 3849  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

*Corr # 3850*

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 \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 933 Watershed: ROUND KNOB RUN  
 District: WALTON County: ROANE Quadrangle: LOONEYVILLE 7.5
- 6) WELL OPERATOR THE CENTRAL PACIFIC GROUP INC 7) DESIGNATED AGENT JOHN CUSHING  
 Address 2222 WEST SHAW, SUITE 20 Address 3901 BRISCOE RD/P.O. BOX 4081  
FRESNO, CA. 93711 PARKERSBURG, W.VA. 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name HOMER DAUGHERTY Name THE COASTAL CORP  
 Address LINDEN RT BOX 3A Address PARKERSBURG, W.VA. 26101  
LOONEYVILLE, W.VA. 25259
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, DEVONIAN SHALE
- 12) Estimated depth of completed well, 5900 feet  
 13) Approximate trata depths: Fresh, 300 300 feet; salt, 800 feet.  
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_

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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	For drilling	Left in well		
Conductor	11-3/4			X		480	480	cir to sur	Kinds <i>By Rule 15.05</i>
Fresh water									Sizes
Coal									Depths set
Intermediate	8-5/8			X		2100	2100	cir to sur	
Production	4-1/2	sm1	10.5	X		590	590	600 sks	
Tubing									Perforations:
Liners									Top Bottom

OIL & GAS DIVISION  
 DEPT. OF MINES

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-087-3849 Date October 28, 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 October 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<b>MARKET BOND</b>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	1275

*[Signature]*  
 Administrator, Office of Oil and Gas



1) Date: OCTOBER 17, 1983  
 2) Operator's Well No. SNYDER # 2  
 3) API Well No. 47 - 087 - 3850  
 State County Permit

Corrected copy

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
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 B (If "Gas", Production        / Underground storage        / Deep        / Shallow X /)
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Tubing									
Liners									Perforations: Top Bottom

OIL & GAS DIVISION  
 DEPT. OF MINES

OFFICE USE ONLY  
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October 28, 1983  
 Date

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<b>MARKET BOND</b>	<u>LA</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>1275</u>

[Signature]  
 Administrator, Office 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.