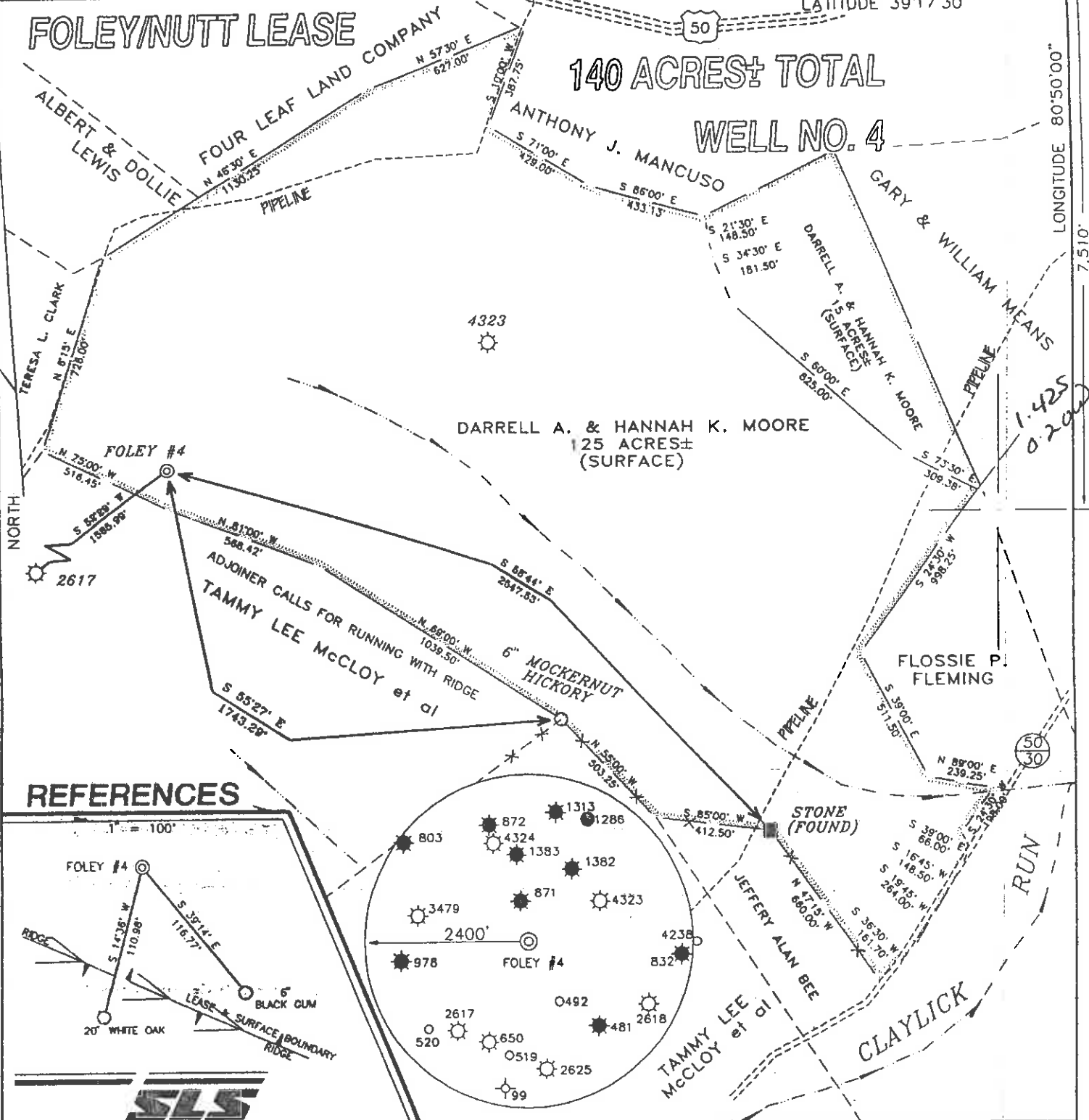


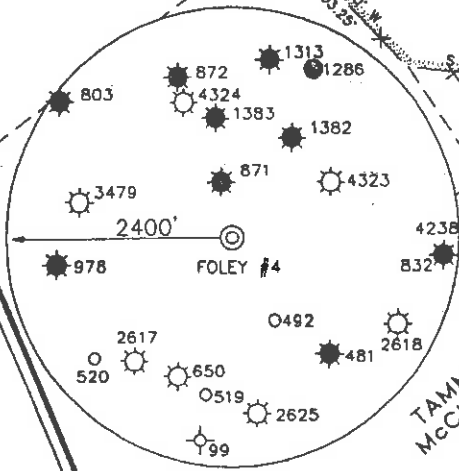
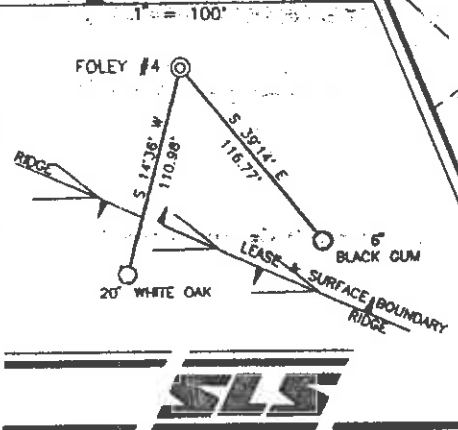
FOLEY/NUTT LEASE

140 ACRES± TOTAL

WELL NO. 4

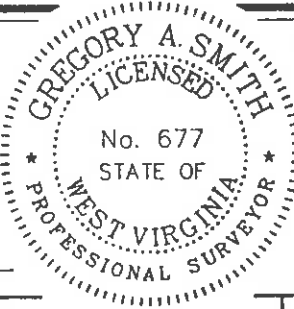


REFERENCES



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.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 6, 19 98
 OPERATORS WELL NO. FOLEY #4
 API WELL NO. 47-17-04430
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3885P4 (64-69)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1304' SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

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

LOCATION :
 ELEVATION 1190' WATERSHED TRIBUTARY OF CLAYLICK RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER DARRELL A. & HANNAH K. MOORE ACREAGE 125
 ROYALTY OWNER DONALD F. LEGGETT ET AL LEASE ACREAGE 140
 PROPOSED WORK :
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5600'

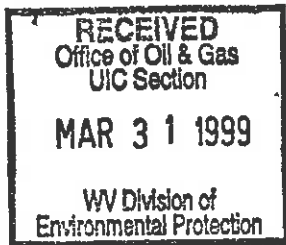
WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

6-689

MAY 18

COUNTY NAME PERMIT 0000 4430

WR-35



15 - May - 98
API # 47 - 17-4430

Reviewed: [Signature]

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

Well Operator's Report of Well Work

Farm name: MOORE, DARRELL

Operator Well No. : FOLEY #4

LOCATION: Elevation: 1,190.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 7510 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 1100 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 05/15/98
Well Work Commenced: 07/26/98
Well Work Completed: 07/31/98
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5656'
Fresh water depths (ft) 130'
Salt water depths (ft) 1758'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1194.50'	1194.50'	330 sks To Surface
4 1/2"	5571'	5571'	500 sks
2 3/8"		5414'	

Is coal being mined in area (Y / N)? N
Coal Depths (ft): _____

OPEN FLOW DATA

Balltown 3955' - 4674'
Rileys 4715' - 5118'
Benson 5160' - 5172'
Producing formation Alexander Pay zone depth (ft) 5408' - 5491'
Gas: Initial open flow 119 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,571 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1800 psig (surface pressure) after 96 Hours

Second producing formation Commingled Pay zone depth (ft) _____
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 pressure) after _____ Hours

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

For: KEY OIL COMPANY
By: [Signature]
Date: March 24, 1999

PRESIDENT

APR 12 1999

D000 4430

Foley #4 (47-017-4430)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (12 holes) (5434' – 5479.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 815 bbls foam.
2 nd Stage:	Benson (7 holes) (5164.5' to 5168.50') Third Riley (5 holes) (5089.75' to 5110.75')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 620 bbls foam.
3 rd Stage:	Riley (10 holes) (4745.50' to 4773.75') Balltown (2 holes) (4496.75' & 4497')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 746 bbls foam.
4 th Stage:	Balltown (12 holes) (4077.75' to 4200.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill & Red Rock	0	17	
Red Rock & Sand & Shale	17	120	
Sand	120	170	
Red Rock	170	180	1/4" water @ 130'
Shale & Sand & Red Rock	180	607	
Sand & Shale	607	721	
Red Rock	721	741	
Sand & Shale	741	1238	
Red Rock	1238	1248	
Sand & Shale	1248	2170	Hole damp @ 1758'
Little Lime	2170	2190	
Shale	2190	2206	
Big Lime	2206	2268	
Big Inun	2268	2392	
Sand & Shale	2392	2501	
Weir	2501	2625	
Sand & Shale	2625	3568	
Warren	3568	3634	
Shale	3634	3646	
Speechley	3646	3762	
Sand & Shale	3762	3955	<u>Gas Checks</u>
Balltown	3955	4674	2103' - No Show
Shale	4674	4715	4083' - 16/10-1" w/H ² O
Riley	4715	4800	4697' - 8/10-2" w/H ² O
Sand & Shale	4800	4982	5101' - 8/10-2" w/H ² O
Second Riley	4982	5025	5442' - 8/10-2" w/H ² O
Shale	5025	5058	
Third Riley	5058	5118	
Shale	5118	5160	
Benson	5160	5172	
Sand & Shale	5172	5408	
Alexander	5408	5491	
Sand & Shale	5491	5656	
TD	5656		