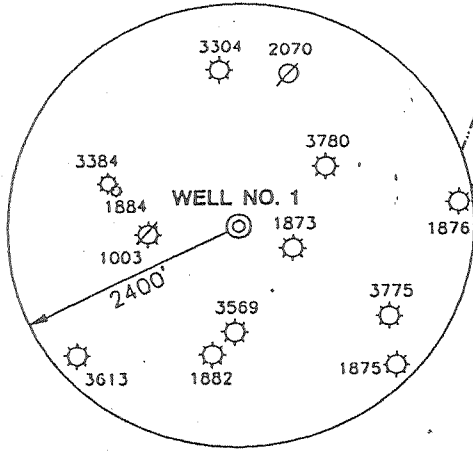
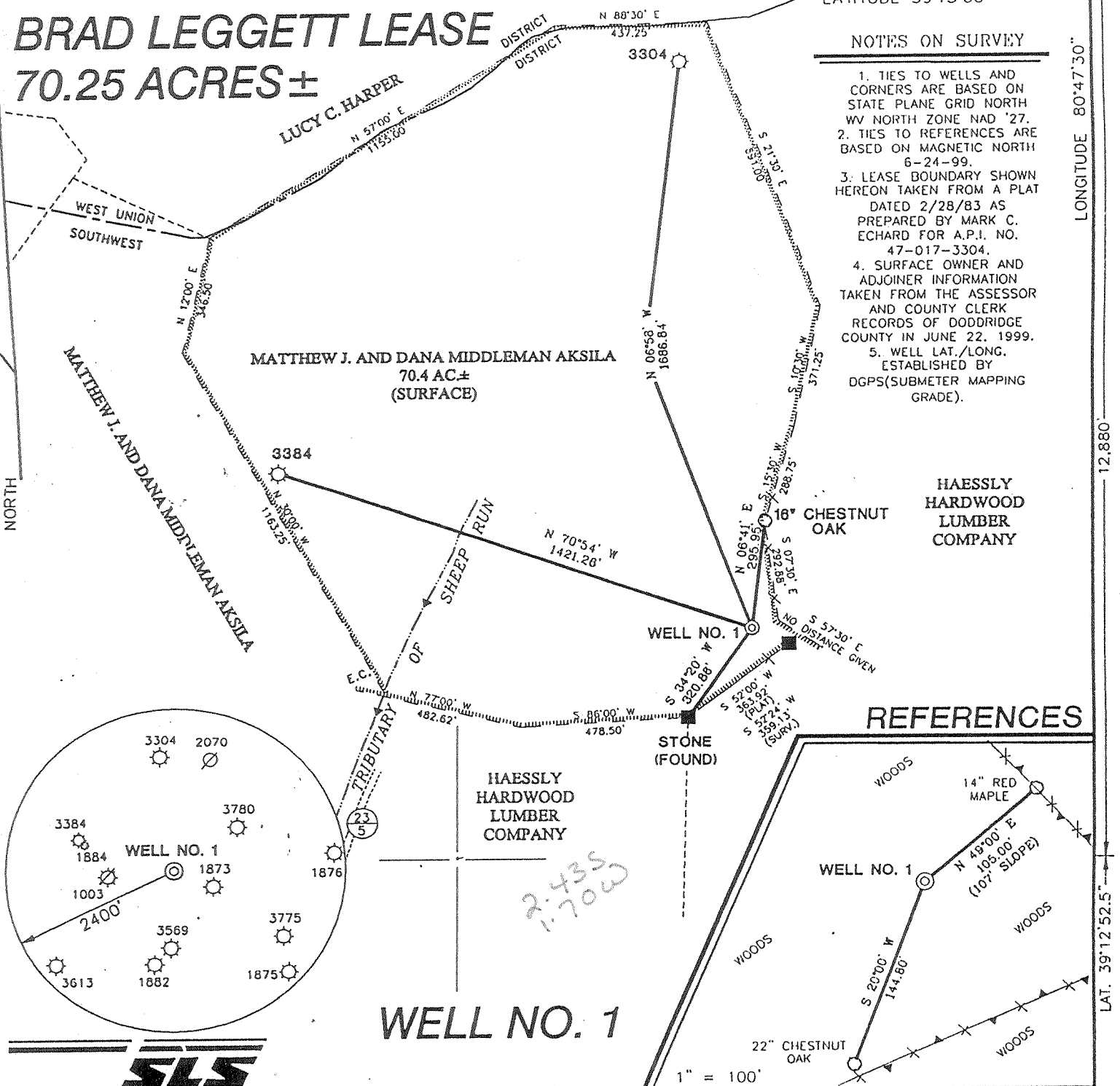


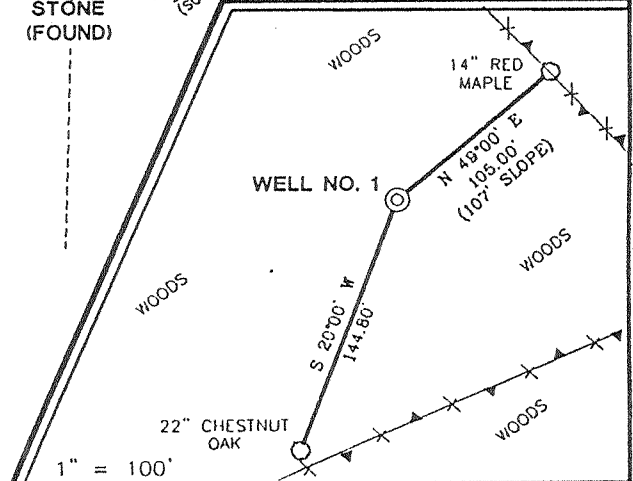
# BRAD LEGGETT LEASE 70.25 ACRES ±

### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 6-24-99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 2/28/83 AS PREPARED BY MARK C. ECHARD FOR A.P.I. NO. 47-017-3304.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JUNE 22, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



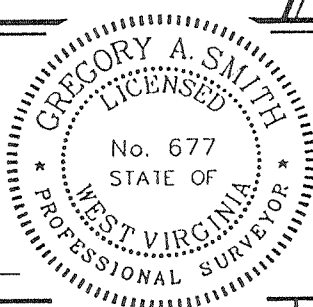
### REFERENCES



## WELL NO. 1

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 JULY 12, 19 99  
 OPERATORS WELL NO. BRAD LEGGETT #1  
 API WELL NO. 47 - 017 - 04528  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4232P1 (80-5)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 841' SCALE 1" = 400'

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 1224' WATERSHED TRIBUTARY OF SHEEP RUN  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'  
 SURFACE OWNER MATTHEW J. AND DANA MIDDLEMAN AKSILA ACREAGE 70.40  
 ROYALTY OWNER BRADLEY LEGGETT LEASE ACREAGE 70.25  
 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

SEP 20 1999

6-6 133

LONGITUDE 80°47'30" 12.880'

LAT. 39°12'52.5"

COUNTY NAME Doddr

PERMIT 4528

WR-35

16 - Sep - 99

APL # 47 - 017-4528

K

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

RECEIVED  
Office of Oil & Gas  
Drilling

DEC 20 1999

Division of  
Environmental Protection

Well Operator's Report of Well Work

Farm name: AKSILA, MATTHEW J. & DANA MIDDLEMAN.

Operator Well No. : BRADLEY LEGGETT #1

LOCATION: Elevation: 1,224.00

Quadrangle: OXFORD

District: SOUTHWEST

County: DODDRIDGE

Latitude: 12880 Feet South of 39 Deg. 15 Min. 00 Sec.

Longitude: 9020 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/16/99  
Well Work Commenced: 09/28/99  
Well Work Completed: 10/03/99  
Verbal Plugging  
Permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5382'  
Fresh water depths ( ft ) NONE  
Salt water depths ( ft ) 364', 1445'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	174.65'	174.65'	90 sks To Surface
8 5/8"	1585.20'	1585.20'	395 sks To Surface
4 1/2"	5321'	5321'	470 sks
2 3/8"		5181'	

Is coal being mined in area ( Y / N )? N

Coal Depths ( ft ): NONE

Warren	3296' - 3360'
Speechley	3370' - 3476'
Balltown	3565' - 4416'
Rileys	4472' - 4872'
Benson	4924' - 4934'
Elk	5122' - 5266'

OPEN FLOW DATA

Producing formation Alexander Pay zone depth ( ft ) 5169' - 5266'  
 Gas: Initial open flow Show MCF / d Oil: Initial open flow 0 Bbl / d  
 Final open flow 1.563 MCF / d Oil: Final open flow show Bbl / d  
 Time of open flow between initial and final tests N/A Hours  
 Static rock pressure 1750 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: December 13, 1999

PRESIDENT

FEB 25 2000

0000 4528

Bradley Leggett #1 (47-017 -4528)  
Four Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 14 holes ) ( 5210.75' to 5248.50' ) Elk ( 3 holes ) ( 5132.75' to 5133.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 7 holes ) ( 4929.50' to 4931' ) 2 <sup>nd</sup> & 3 <sup>rd</sup> Riley ( 7 holes ) ( 4770.75' to 4830.75' )	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 616 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 8 holes ) ( 4497.75' to 4514.75' ) Balltown ( 9 holes ) ( 3929.50' to 4113.75' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 743 bbls foam.
4 <sup>th</sup> Stage:	Balltown ( 5 holes ) ( 3718' to 3803' ) Speechley ( 7 holes ) ( 3377.75' to 3467.50' ) Warren ( 3 holes ) ( 3354.75' to 3355.25' )	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

KB-GL	0	10	
Fill	10	12	
Sand	12	20	
Shale & Red Rock	20	43	
Shale & Sand	43	160	
Sand & Shale & Red Rock	160	345	
Sand	345	370	½" H <sub>2</sub> O @ 364'
Shale & Red Rock	370	600	
Sand	600	614	
Sand & Shale	614	925	
Red Rock & Shale	925	945	
Sand & Shale	945	1890	1½" H <sub>2</sub> O @ 1445'
Little Lime	1890	1925	
Shale	1925	1931	
Big Lime	1931	1992	
Big Injun	1992	2084	
Shale	2084	2232	
Weir	2232	2358	
Sand & Shale	2358	2648	
Gordon	2648	2674	
Shale & Sand	2674	3296	
Warren	3296	3360	<u>Gas Checks</u>
Shale	3360	3370	1802' - No Show
Speechley	3370	3476	2112' - No Show
Shale	3476	3565	3318' - Odor
Balltown	3565	4416	3599' - Odor
Shale	4416	4472	4500' - Odor
Riley	4472	4542	4900' - Odor
Shale	4542	4732	
Second & Third Riley	4732	4872	
Shale	4872	4924	
Benson	4924	4934	
Shale	4934	5122	
Elk	5122	5138	
Shale	5138	5169	
Alexander	5169	5266	
Sand & Shale	5266	5382	
T.D.	5382		