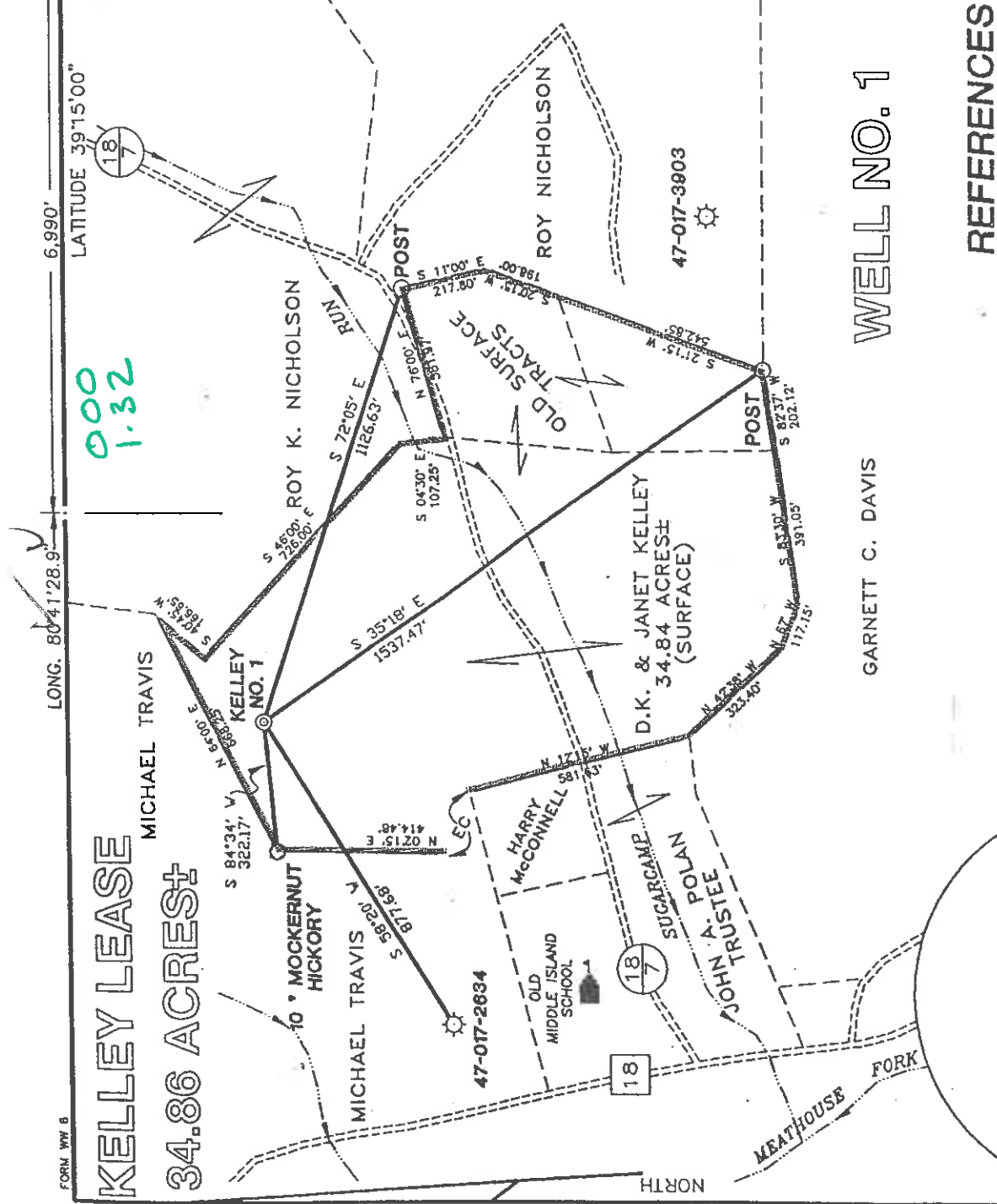


LONG. 80°41'28.9" LATITUDE 39°15'00" LONGITUDE 80°40'00" LAT. 39°14'59.7"

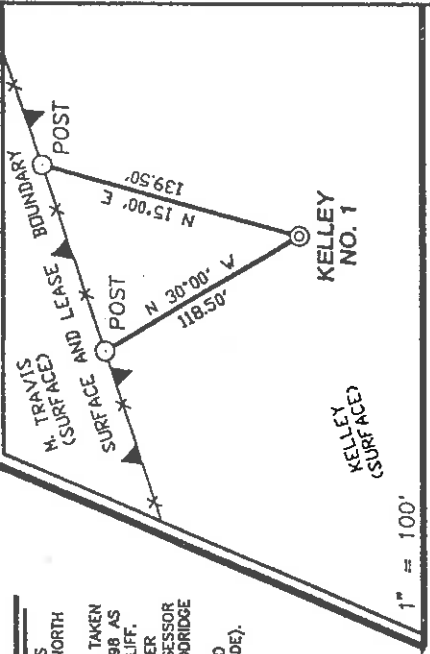
KELLEY LEASE 34.86 ACRES±

0.00
1.32



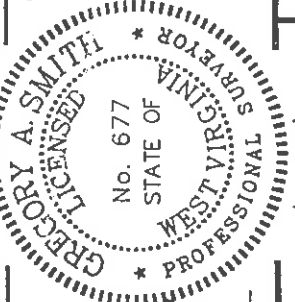
GARNETT C. DAVIS
WELL NO. 1

REFERENCES



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE REPORT DATED 8/31/98 AS PREPARED BY RICHARD M. REDDECLIFF.
3. SURFACE OWNERS AND ADJOINER INFORMATION OBTAINED FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIE COUNTY IN SEPTEMBER 1998.
4. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).



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

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4062P1 (69-33)
PROVEN SOURCE JUNCTION OF ROADS ELEVATION 824' SCALE 1" = 400'

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

LOCATION : ELEVATION 1054' WATERSHED MEATHOUSE FORK DISTRICT NEW MILTON COUNTY DODDRIE

SURFACE OWNER D.K. AND JANET KELLEY QUADRANGLE NEW MILTON 7.5' ACREAGE 34.84
ROYALTY OWNER D.K. AND JANET KELLEY LEASE ACREAGE 34.86

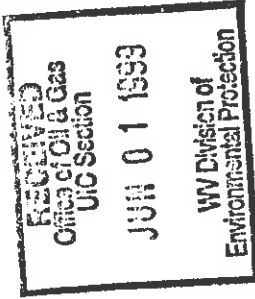
PROPOSED WORK :
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5600'

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

DODD COUNTY NAME 4493 PERMIT

6-6 99

WR-35



27 - Oct - 98
API # 47 - 17 - 4493

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

Reviewed AS

WV Division of
Environmental Protection

Well Operator's Report of Well Work

Farm name: KELLEY, DK & JANET

Operator Well No. : KELLEY #1

LOCATION: Elevation: 1,054.00

Quadrangle: NEW MILTON

District: NEW MILTON

County: DODDRIDGE

Latitude: 10 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude: 6990 Feet West of 80 Deg. 40 Min. 00 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit issued: 10/27/98
Well Work Commenced: 12/10/98
Well Work Completed: 12/14/98

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5324'
Fresh water depths (ft) 20', 170'
Salt water depths (ft) NONE

Is coal being mined in area (Y / N)? N
Coal Depths (ft): NONE

OPEN FLOW DATA

Balltown
Rileys
Benson
Elk

Producing formation Alexander
Gas: Initial open flow Show MCF / d
Final open flow 1,516 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1925 psig (surface pressure) after 96

3904' - 4202'
4362' - 4800'
4871' - 4882'
5024' - 5035'
5108' - 5230'

Pay zone depth (ft)
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
Hours
Hours

Second producing formation Commingled

Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / d
Time of open flow between initial and final tests _____
Static rock pressure _____ psig (surface pressure) after _____

Pay zone depth (ft)
Oil: Initial open flow _____ Bbl / d
Oil: Final open flow _____ Bbl / d
Hours
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: April 22, 1999

PRESIDENT

D000 4493

JUN 14 1999

Kelley #1 (47-017-4493)
Three Stage Foam Frac - Halliburton

1 st Stage:	Alexander (11 holes) (5171' to 5226.75') Eik (3 holes) (5031.75' to 5032.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 812 bbis foam.
2 nd Stage:	Benson (6 holes) (4874.50' to 4875.75') Third Riley (6 holes) (4775.25' to 4776.50')	60 Quality Foam. 750 gal 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 712 bbis foam.
3 rd Stage:	Second Riley (3 holes) (4628' to 4628.50') Riley (7 holes) (4400' to 4417.75') Balltown (2 holes) (4157' & 4157.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill	0	5	
Sand	5	28	½" H ₂ O @ 20'
Sand & Shale	28	53	
Sand	53	98	
Red Rock	98	106	
Sand	106	132	
Shell	132	151	
Red Rock	151	172	½" H ₂ O @ 170'
Sand & Shale	172	652	
Red Rock	652	755	
Sand & Shale	755	840	
Red Rock	840	875	
Sand & Shale	875	1300	
Sand	1300	1630	
Shale	1630	1735	
Sand	1735	1828	
Shale	1828	1841	
Little Lime	1841	1854	
Big Lime	1854	1918	
Big Injun	1918	2017	
Shale	2017	2156	
Weir	2156	2254	
Shale	2254	2374	
Berea	2374	2386	
Shale & Siltstone	2386	3199	
Warren	3199	3318	
Shale	3318	3337	
Speechley	3337	3617	
Sand & Shale	3617	3904	
Balltown	3904	4202	
Shale	4202	4362	
Riley	4362	4444	
Shale	4444	4603	
Second Riley	4603	4668	
Shale	4668	4756	
Third Riley	4756	4800	
Shale	4800	4871	
Benson	4871	4882	
Shale	4882	5024	
Eik	5024	5035	
Shale	5035	5108	
Alexander	5108	5230	
Sand & Shale	5230	5495	
T.D.	5495		

Gas Checks
 2043' - 6/10^{ths} - 1" w/H₂O
 2625' - 8/10^{ths} - ½" w/H₂O
 2995' - 8/10^{ths} - ½" w/H₂O
 3798' - 8/10^{ths} - ½" w/H₂O
 4724' - 8/10^{ths} - ½" w/H₂O
 5498' - No Show
 Collars - 2/10^{ths} - ½" w/H₂O