

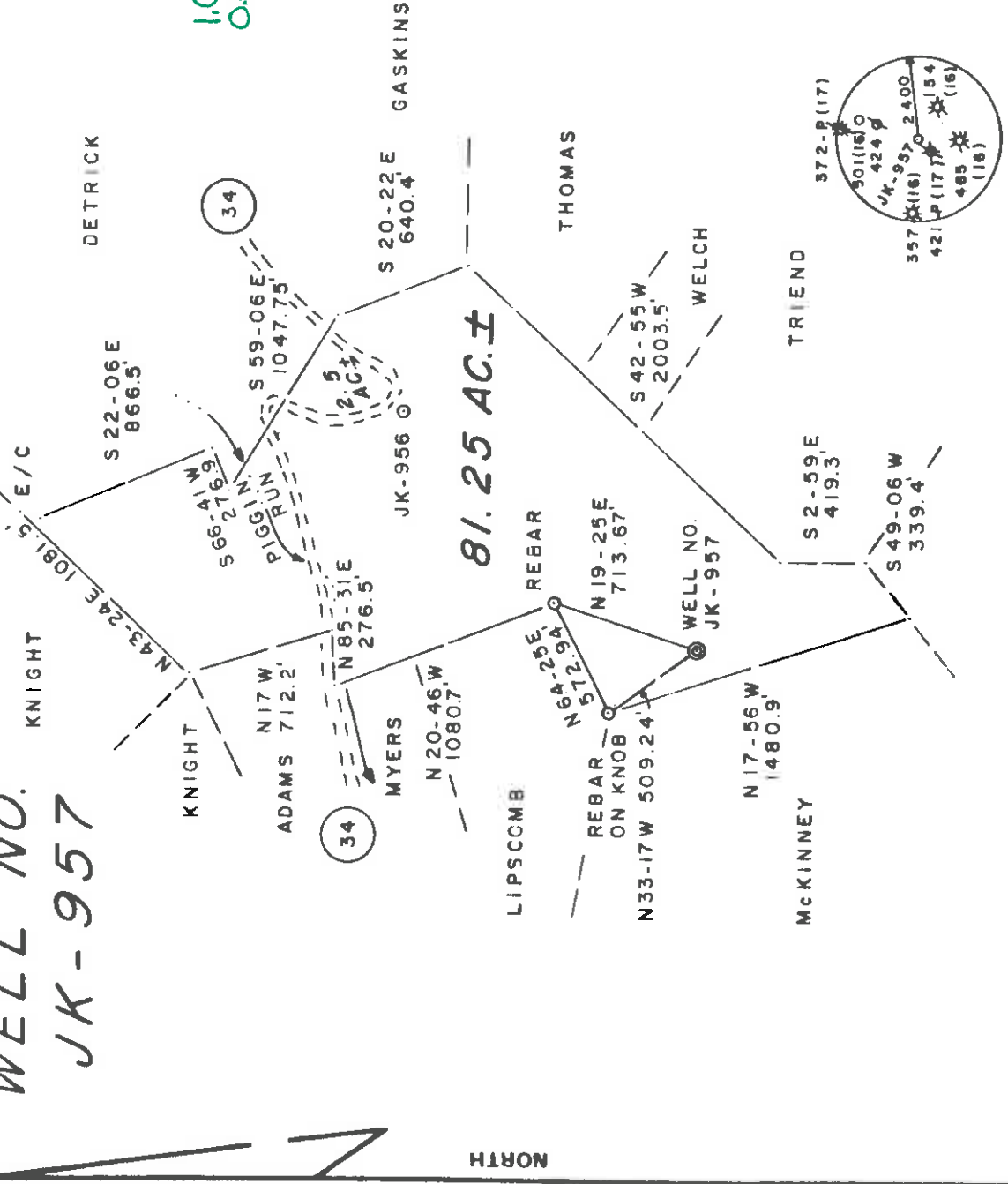
Plot Card CSD

LATITUDE 39° 20' 00" LONGITUDE 80° 45' 00"

WILLIAMS LEASE WELL NO. JK-957

1.059
0.14W

1.055
0.14W



FILE NO. 13-27
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF _____
 ACCURACY 1/200
 PROVEN SOURCE OF _____
 ELEVATION BM ELEV. 954'

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 MINES.
 (SIGNED) Gregory A. Smith
 R.P.E. L.I.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 4, 1984
 OPERATOR'S WELL NO. JK-957
 API WELL NO. 47-017-3321
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1120' WATER SHED PIGGIN RUN
 DISTRICT WEST UNION 8 COUNTY DODDRIDGE
 QUADRANGLE 671 WEST UNION 7.5' West Union 157 SEg
 SURFACE OWNER MICHAEL & MARCIA LANHAM ACREAGE 81.25
 OIL & GAS ROYALTY OWNER JOSEPH WILLIAMS, et. al. LEASE ACREAGE 89
 LEASE NO. JK-94

PROPOSED WORK: DRILL 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 ALEXANDER ESTIMATED DEPTH 5700'
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF
 ADDRESS P.O. BOX 48 427 ADDRESS P.O. BOX 48
 BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

6-6 Smithton Flut-Sadalia (99)

MAY 7 1984



IV-35
(Rev 8-81)

Date 10-16-84
Operator's
Well No. WK-418 JK-957
Farm Lanham #2
API No. 47 -017 - 3321

State of West Virginia
Department of Mines
Oil and Gas Division

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 X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1120 Watershed Piggin Run
District: West Union County Doddridge Quadrangle West Union 7.5

COMPANY Keeco, Inc

ADDRESS 436 Blvd. of the Allies, Pitts. PA 15219

DESIGNATED AGENT E. L. Stuart

ADDRESS Box 1550 Clarksburg, WV 26301

SURFACE OWNER Michael and Marcia Lanham

ADDRESS Box 635 Sugar Creek, OH

MINERAL RIGHTS OWNER Joseph Williams et. al.

ADDRESS 115-1/2 B Grant Street

Clarksburg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt. 2 Box 114

Salem, WV 26426

PERMIT ISSUED May 4, 1984

DRILLING COMMENCED 9-14-84

DRILLING COMPLETED 9-19-84

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

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30	0	
9 5/8			
8 5/8	1704	1704	360 sks neat
7			
5 1/2			
4 1/2	5508	5508	270 sks pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5340 feet

Depth of completed well 5626 feet Rotary X / Cable Tools

Water strata depth: Fresh 30 feet; Salt feet

Coal seam depths: None Reported Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander, Benson, Bradford Pay zone depth 5383, 5093, 4646 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 389 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1450 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

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 measurement) after hours shut in

DEC 31 1984

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

Perforated 9-26-84 Perco Wireline Co.

~~Bradford~~ 4646 - 4656 Avg. Press 2750 psig, Avg. Rate 24 BPM
 Benson 5093 - 5100 Avg. Press 2300 psig, Avg. Rate 20 BPM
 005 5383 - 5428 Avg. Press 2800 psig, Avg. Rate 34 BPM

Fractured 9-26-84 Halliburton Services - Water frac with Nitrogen Assist
 1st stage 35000 Lbs. 20/40 sand
 2nd stage 30000 Lbs. 20/40 sand
 3rd stage 5000 Lbs. 80/100 sand and 25000 20/40 sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock and Shale			0	30	Fresh Water @ 30'
Sand			30	75	
Red Rock			75	100	
Shale			100	110	
Sand and Shale			110	170	
Red Rock and Shale			170	260	
Sand			260	290	
Red Rock, Sand and Shale			290	710	
Sand and Shale			710	845	
Sand			845	865	
Red Rock			865	875	
Sand and Shale			875	1260	
Shale			1260	1300	
Sand			1300	1425	
Shale			1425	1550	
Sand and Shale			1550	1910	
Shale			1910	1960	
Sand and Shale			1960	2029	
Big Lime			2029	2087	
Big Injun			2087	2207	
Berea			2207	2578	
5th			2578	2814	
Speechley			2814	3500	
Balltown			3500	3632	
Bradford			3632	3978	
Benson			3978	4680	
Alexander			4680	5092	
Shale			5092	5430	
			5430	5626	
			Total Depth		

(Attach separate sheets as necessary)

Kepeco, Inc.
Well Operator

By: Stanley S. Benson Chief Geologist

Date: _____

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

1) Date: APRIL 5, 19 84
 2) Operator's Well No. JK-957
 3) API Well No. 47-017-3321 State County Permit



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage
 Elevation: 1120' Watershed: PIGGIN RUN Deep Shallow
 District: WEST UNION County: DODDRIDGE Quadrangle: WEST UNION 7.5'
 6) WELL OPERATOR J & J ENTERPRISES, INC. 7) DESIGNATED AGENT RICHARD M. REDDECLIFF
 Address P.O. BOX 48 Address P.O. BOX 48
BUCKHANNON, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name STEPHEN CASEY
 Address RT. 2 - BOX 232 - D
JANE LEW, WV 26378

10) PROPOSED WELL WORK: Drill Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) ALEXANDER

11) GEOLOGICAL TARGET FORMATION, ALEXANDER
 12) Estimated depth of completed well, 5700' feet
 13) Approximate trata depths: Fresh, 120' feet; salt, 0 feet.
 14) Approximate coal seam depths: 400' Is coal being mined in the area? Yes No

RECEIVED
 APR 12 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor	11 3/4	E-40	42	30	0	0 SKS.	
Fresh water	8 5/8	ERW	23	1220'	1220'	To surface	Kind
Coal	8 5/8	ERW	23	1220'	1220'	To surface	Sizes
Intermediate							Depths set
Production	4 1/2	J-55	10.5	5650'	5650'	450 SKS.	Perforations:
Tubing							Top
Liners							Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3321

May 4, 1984 Date

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 May 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>JK</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>1500</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

